

## **Reflective Cracking Testing Notes**

**Date:** March 07, 2017

**Project:** Reflective Cracking Indoor Phase 5

**Temperature:**

Ambient temp: 52.7F

Interface temp: T1-N = 25.9F; T1-S = 26.8F

**Working Hours:** 7:00 AM – 3:30 PM

**Sub-Contractor(s):** N/A

**Equipment:** N/A

**Reflective Cracking Testing Notes:**

Cycle count: 444

South test item observations:

- Outer vertical edge:
  - Crack through SG6-S-0 and SG6-S-1.5. Crack stopped at SG6-S-3 as shown Figures 1 and 2.
  - Removed ice over SG6-S-0 and SG6-S-1.5.
  - SG6-S-1.5 gauge is open. SG6-S-0 was open before formal test began.
- Joint surface area:
  - Start from the South outer edge and work toward the inner edge. None of the surface gauges show evidence of a crack as shown in Figures 2, 3, 4 and 5.
- Inner vertical edge:
  - There is no evidence of a crack on the inner vertical edge as shown in Figure 6.

North test item observations:

- Outer vertical edge:
  - Crack is more visible through the outer vertical edge. SG6-N-0, SG6-N-1.5 and SG6-N-3 as shown in Figure 7.
  - SG6-N-0, SG6-N-1.5 and SG6-N-3 gauges are open.
- Joint surface area:
  - Start from the north outer edge and work toward the inner edge, crack propagation through SG5-N-3, SG4-N-3 and SG3-N-3 as shown in Figures 8, 9 and 10.
  - SG5-N-3, SG4-N-3 and SG3-N-3 gauges are open.
  - Three-fifths of the north test section appears to be cracked as shown in Figure 13.
  - No crack on SG2-N-3 as shown in Figure 11.
- Inner vertical edge:
  - No crack on the inner vertical edge as shown in Figure 12.

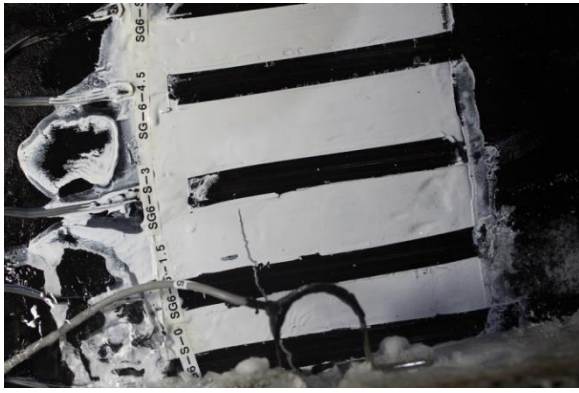


Figure 1. Crack through SG6-S-0 and SG6-S-1-5. No crack on SG6-S-3, SG6-S-4.5

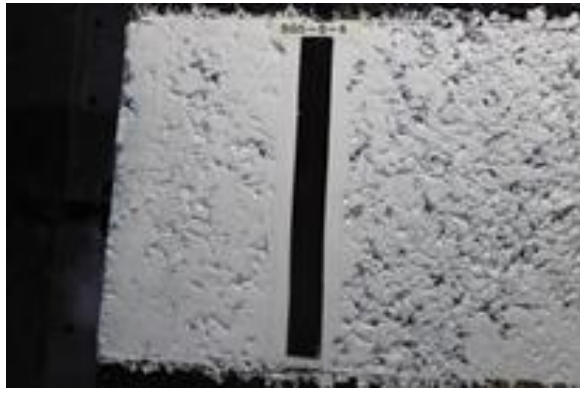


Figure 2. SG5-S-6, no crack



Figure 3. SG4-S-6, no crack.



Figure 4. SG3-S-6, no crack.



Figure 5. SG2-S-6, no crack.

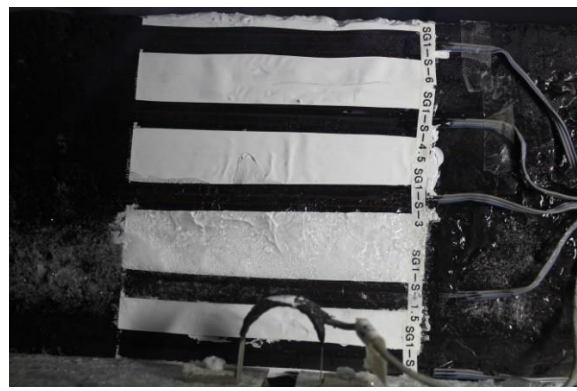


Figure 6. SG1-S-0 through SG1-S-6, no crack



Figure 7. SG6-N-0, SG6-N-1.5 and SG6-N-3. Bottom up crack completed up to the surface

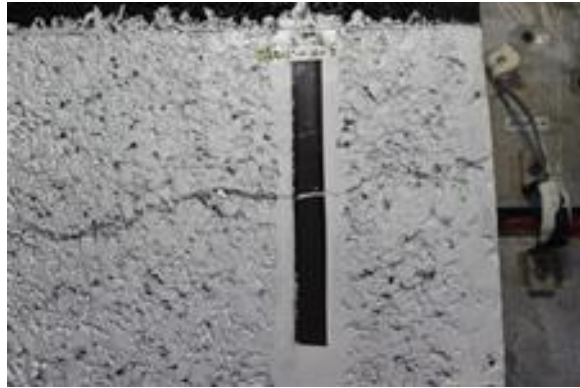


Figure 8. Crack propagation from the vertical edge through SG5-N-3

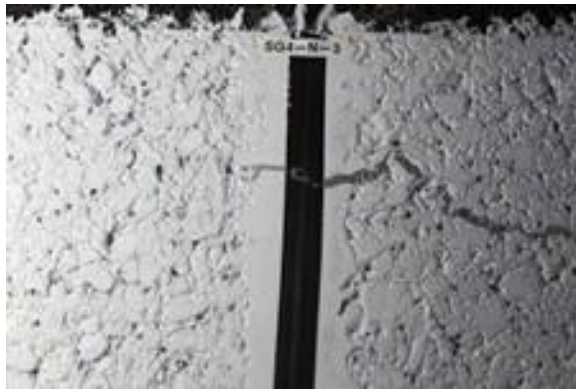


Figure 9. Crack from SG5-N-3 propagated through SG4-N-3



Figure 10. Crack from SG4-N-3 propagated SG3-N-3 and stopped



Figure 11. SG2-N-3, no crack.



Figure 12. SG1-N-0, SG1-N-1.5 and SG1-N-3, no crack.

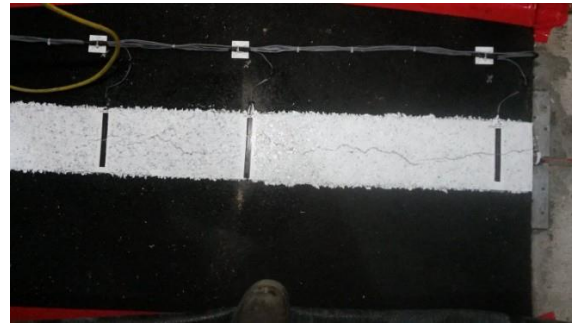
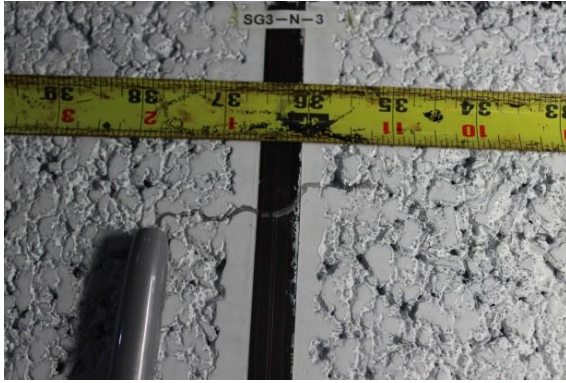


Figure 13. Three-fifths of the north test section appears to be crack (approximately 37.5")